

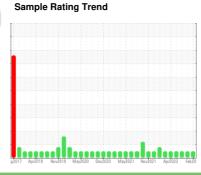
**OIL ANALYSIS REPORT** 

(P633828) 3758C

Component

**Natural Gas Engine** 

PETRO CANADA DURON GEO LD 15W40 (40 QTS)





# DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

## **Fluid Condition**

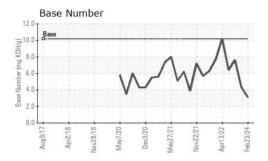
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

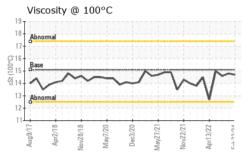
g2017 Apr2018 New2018 May2020 Dec2020 May2021 New2021 Apr2022 Feb.20						
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101743	GFL0047437	GFL0063809
Sample Date		Client Info		23 Feb 2024	14 Jun 2023	14 Dec 2022
Machine Age	nrs	Client Info		15100	14378	13341
Oil Age	nrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	opm	ASTM D5185m	>50	20	18	13
Chromium	opm	ASTM D5185m	>4	2	3	2
Nickel	opm	ASTM D5185m	>2	0	1	0
Titanium	opm	ASTM D5185m		0	<1	0
Silver	opm	ASTM D5185m	>3	0	0	0
Aluminum	opm	ASTM D5185m	>9	3	4	<1
Lead	opm	ASTM D5185m	>30	8	14	0
Copper	opm	ASTM D5185m	>35	<1	2	<1
Tin p	opm	ASTM D5185m	>4	0	2	0
Vanadium	opm	ASTM D5185m		0	<1	0
Cadmium	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m	50	8	10	14
Barium	opm	ASTM D5185m	5	8	0	0
Molybdenum	opm	ASTM D5185m	50	59	56	55
Manganese	opm	ASTM D5185m	0	0	2	<1
Magnesium	opm	ASTM D5185m	560	589	718	572
Calcium	opm	ASTM D5185m	1510	1635	1745	1727
Phosphorus	opm	ASTM D5185m	780	826	821	816
Zinc	opm	ASTM D5185m	870	992	1107	999
Sulfur	opm	ASTM D5185m	2040	2552	3118	2666
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185m	>+100	8	8	8
	opm	ASTM D5185m		8	9	10
	opm	ASTM D5185m	>20	5	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.5	11.8	12.0
	Abs/.1mm	*ASTM D7415	>30	26.9	25.8	22.5
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	23.2	22.4	18.7
			-			

Base Number (BN) mg KOH/g ASTM D2896 10.2 3.1



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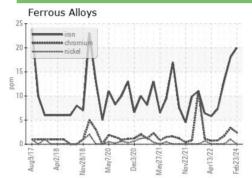


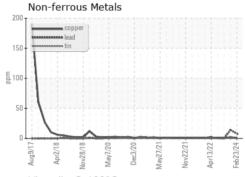


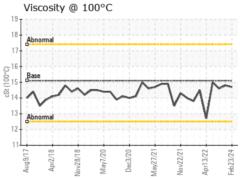
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

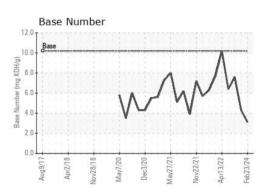
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.8	14.6

# **GRAPHS**













Certificate L2367

Laboratory Sample No. Unique Number : 10898241

Test Package : FLEET

: GFL0101743 Lab Number : 06100011

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested** : 27 Feb 2024

Diagnosed : 27 Feb 2024 - Wes Davis

GFL Environmental - 030 - Conway Myrtle Beach

3010 HWY 378 Conway, SC US 29527

Contact: ARCILIO RUEZ aruiz@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: